“Cloud & API deployment” assignment

Data glacier internship

Name: G2M insight for Cab Investment firm

Submission date: 8th October 2022

Internship Batch: LISUM13: 30

Deployment steps:

1) Using the toy data and model used in flask deployement.
   - The dataset used is Fish market data available on Kaggle Dataset link. The model generated is used to predict the fish’s weight from its dimensions.

2) Generate the requirements.txt file necessary for Heroku to identify a python app
   a. Create and activate a separate environment in conda

```
(base) C:\Users\Rania Fleifel>conda create --name heroku_env python=3.8
(base) C:\Users\Rania Fleifel>conda activate heroku_env
```

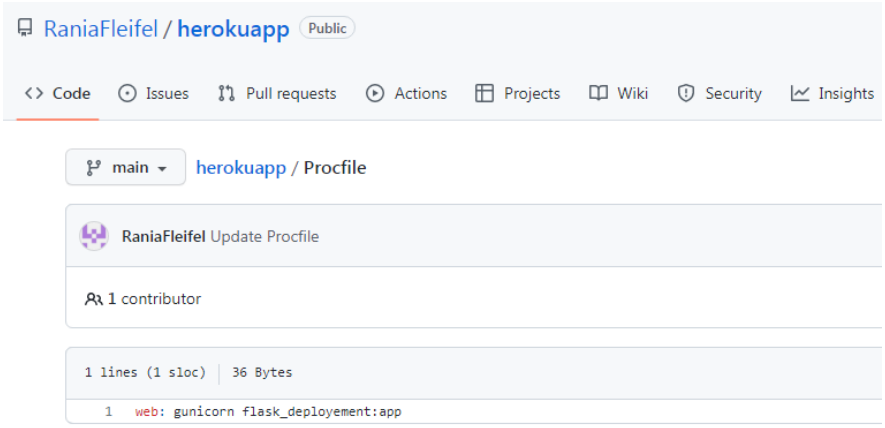
   b. Run the python scripts in the environment and “pip install” the required packages

```
(base) C:\Users\Rania Fleifel>python model_generation.py
(base) C:\Users\Rania Fleifel>python flask_deployement.py
```

   c. Generate requirements.txt file

```
(base) C:\Users\Rania Fleifel>pip freeze >requirements.txt
```

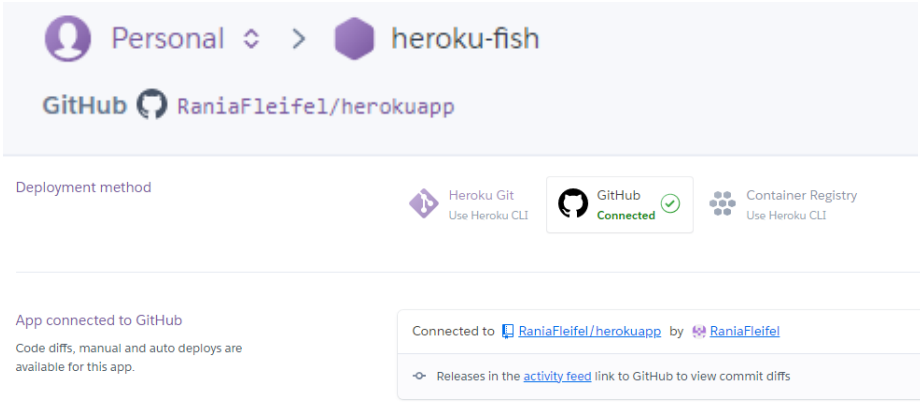
3) Push the local folder to herokuapp.git
   a. Add Procfile file



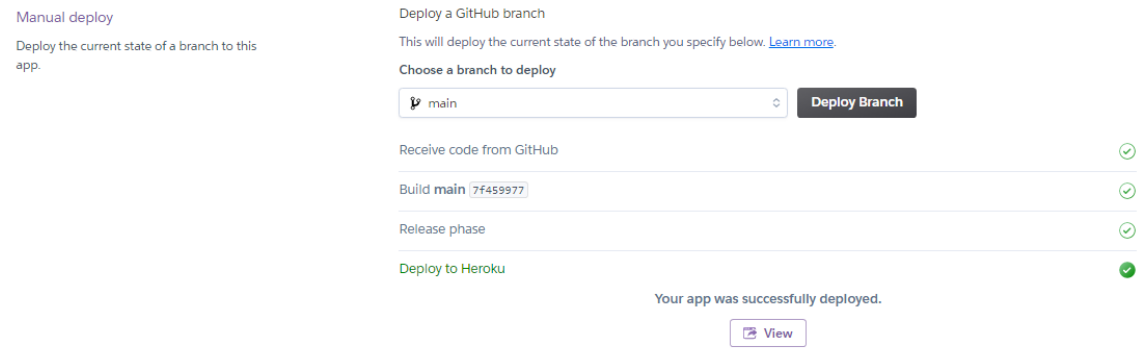
b. Add gunicorn to requirements.txt

4) Deployment on Heroku

a. Create new app and connect it to herokuapp on git



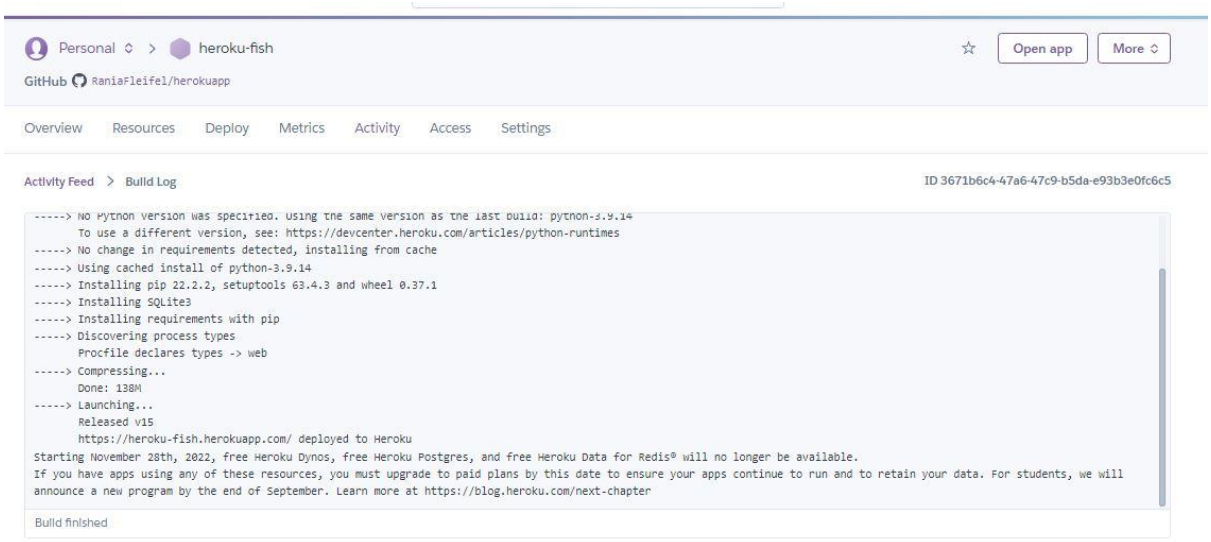
b. Manually deploy the app



Successful app deployed @ heroku-fish.herokuapp

** UPDATE: 31ST December 31, 2022

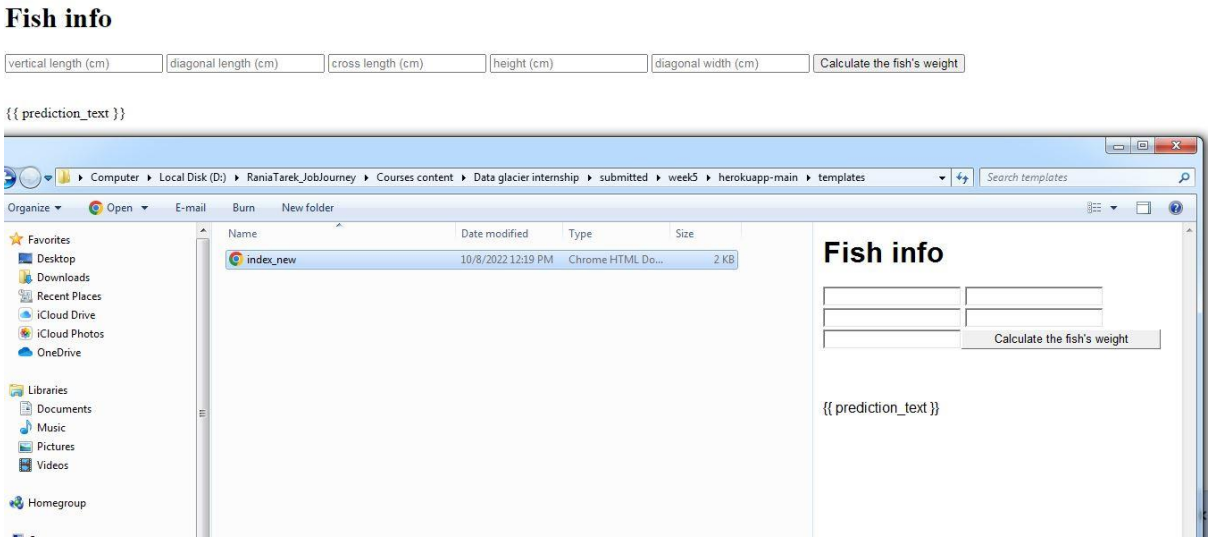
I am unable to retrieve a snapshot of the app because Heroku changed their plans to paid plans and revoked all apps deployed for free as shown in this screen shot.



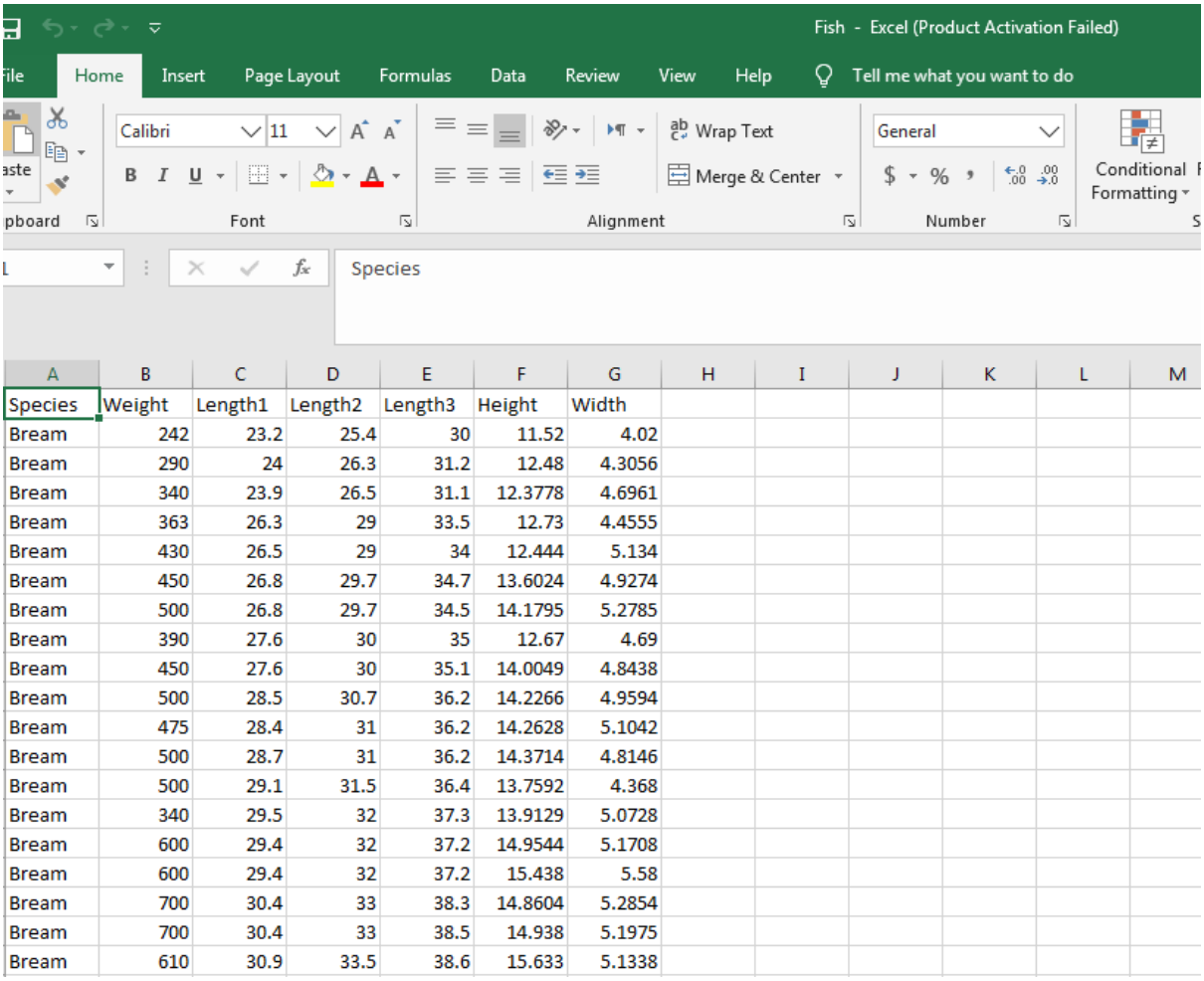
I have contacted Heroku to try to retrieve at least a snapshot of the app.

The closest thing I found are:

1) this snapshot of the template of the app



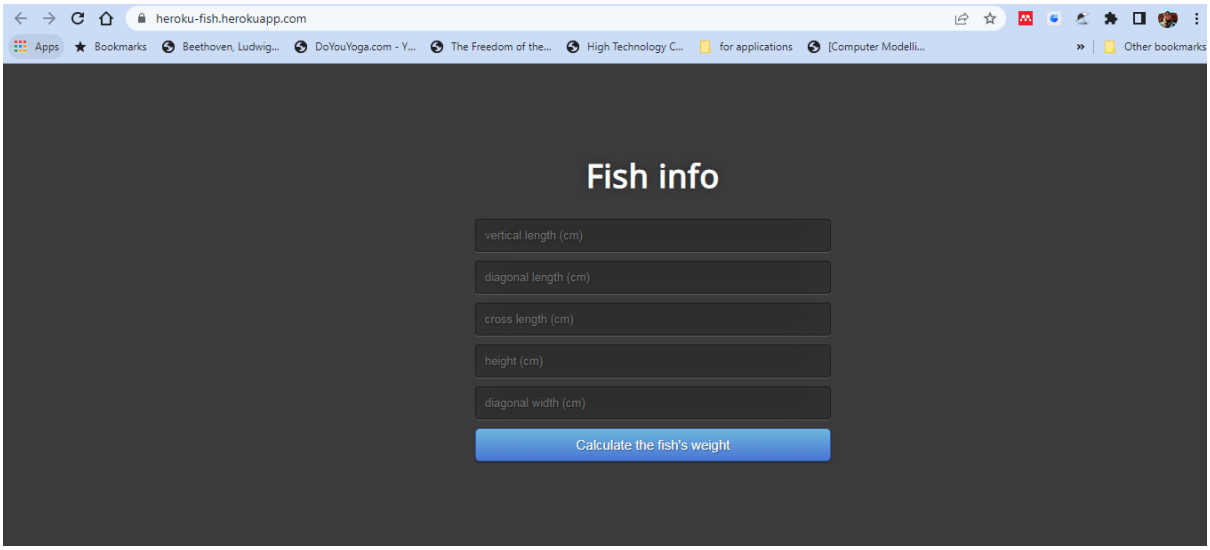
2) An excel file of all entries and the resulting weights proving the app works
https://drive.google.com/file/d/1kouXNAaoj2A6CIfZ3UI_z-FovWArrxdk/view?usp=sharing



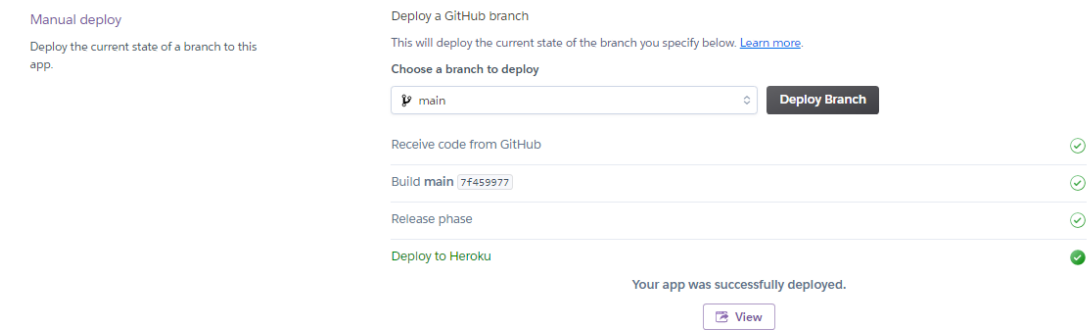
Species	Weight	Length1	Length2	Length3	Height	Width
Bream	242	23.2	25.4	30	11.52	4.02
Bream	290	24	26.3	31.2	12.48	4.3056
Bream	340	23.9	26.5	31.1	12.3778	4.6961
Bream	363	26.3	29	33.5	12.73	4.4555
Bream	430	26.5	29	34	12.444	5.134
Bream	450	26.8	29.7	34.7	13.6024	4.9274
Bream	500	26.8	29.7	34.5	14.1795	5.2785
Bream	390	27.6	30	35	12.67	4.69
Bream	450	27.6	30	35.1	14.0049	4.8438
Bream	500	28.5	30.7	36.2	14.2266	4.9594
Bream	475	28.4	31	36.2	14.2628	5.1042
Bream	500	28.7	31	36.2	14.3714	4.8146
Bream	500	29.1	31.5	36.4	13.7592	4.368
Bream	340	29.5	32	37.3	13.9129	5.0728
Bream	600	29.4	32	37.2	14.9544	5.1708
Bream	600	29.4	32	37.2	15.438	5.58
Bream	700	30.4	33	38.3	14.8604	5.2854
Bream	700	30.4	33	38.5	14.938	5.1975
Bream	610	30.9	33.5	38.6	15.633	5.1338

** Update January 2, 2023

Snapshot of the application:



Snapshot of the successful deployement:



Snapshot of entries and the result from the app: